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APPLICATION NO	. F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/577,231		05/23/2000	Lundy Lewis	APB-021	. 3634
959	7590	03/11/2005		EXAMINER	
		FIELD, LLP.	ENGLAND, DAVID E		
28 STATE STREET BOSTON, MA 02109				ART UNIT	PAPER NUMBER
				2143	
			DATE MAILED: 03/11/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)				
		09/577,231	LEWIS, LUNDY				
	Office Action Summary	Examiner	Art Unit				
		David E. England	2143				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NO - Failu Any	MAILING DATE OF THIS COMMUNICATION.  nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication.  e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we use to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>23 December 2004</u> .						
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.	•				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	·					
5)□ 6)⊠ 7)□	Claim(s) 4 and 13 – 62 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 4 and 13 – 62 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9)□	The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen	at(s)		•				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2)  Notice  No	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Da					

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#### **DETAILED ACTION**

1. Claims 4 and 13 - 62 are presented for examination.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 4, 13 17, 19 35, 37 53 and 55 62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yemini et al. (6249755) (hereinafter Yemini) in view of Bhoj et al. (6304892) (hereinafter Bhoj).
- 4. Referencing claim 27, as closely interpreted by the Examiner, Yemini teaches a system for monitoring a service supporting a business process under service level management in association with a service level management domain, the service level management domain including an enterprise management system comprising an interface configured to communicate with at least one of a network management system, a system management system, an application management system and a traffic management system, the business process being performable in connection with a portion of a network, the system comprising:
- 5. a mapping mechanism for associating a component of the network to the service supporting the business process, (e.g. col. 2, lines 4-46);

6. a monitoring mechanism for monitoring a parameter of the associated network component, the parameter indicating an operational characteristic of the network component, (e.g. col. 2, lines 4 – 46); and

- 7. a reasoning mechanism for determining a condition of the service from the parameter of the monitored network component, (e.g. col. 1, lines 24 64); and
- 8. a service monitoring mechanism for monitoring the condition of the service supporting the business process to provide service level management of the business process, (e.g. col. 2, lines 4-46).
- 9. Yemini does not specifically teach a mapping mechanism for associating a component of the network to the service supporting the business process under service level management in association with the service level management domain.
- 10. Bhoj teaches a system for monitoring a service supporting a business process under service level management in association with a service level management domain, the service level management domain including an enterprise management system comprising an interface configured to communicate with at least one of a network management system, a system management system, an application management system and a traffic management system, the business process being performable in connection with a portion of a network, the system comprising:
- 11. a mapping mechanism for associating a component of the network to the service supporting the business process under service level management in association with the service level management domain, (e.g. col. 3, line 62 col. 4, line 11 & col. 8, lines 3 20). It would have been obvious to one of ordinary skill in the art, at the time the invention was conceived, to

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combine Bhoj with Yemini because it allows management of the services of the entire data access network system (or part of it) without any one domain having complete access to each of the data service systems of the data access network system. This also allows the data service systems to exchange information about how a service provider is complying with its service level agreements with its customer, outsourcer, or partner. In addition, the arrangement enables the customers of the data access network system to monitor and verify the delivered services against the guarantees offered by their service providers without having complete access to the service provider's system.

- Referencing claim 28, as closely interpreted by the Examiner, Yemini teaches the mapping mechanism associates a parameter of the service with the parameter of the associated network component, the service parameter comprising a variable having a state which represents an operational characteristic of the service provided by the network, (e.g. col. 2, lines 4-46).
- 13. Referencing claim 29, as closely interpreted by the Examiner, Yemini teaches a value for the service parameter is determined from a value of the parameter of the associated network component, (e.g. col. 8, lines 17 67).
- 14. Referencing claim 30, as closely interpreted by the Examiner, Yemini teaches the reasoning mechanism comprises a rule-based reasoning system for determining the condition of the service teaches, (e.g. col. 2, line 47 col. 3, line 50).

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- 15. Referencing claim 31, as closely interpreted by the Examiner, Yemini teaches the reasoning mechanism comprises a model-based reasoning system for determining the condition of the service, (e.g. col. 5, lines 42 64).
- 16. Referencing claim 32, as closely interpreted by the Examiner, Yemini teaches the reasoning mechanism comprises a case-based reasoning system for determining the condition of the service, (e.g. col. 3, line 51 col. 4, line 27).
- 17. Referencing claim 33, as closely interpreted by the Examiner, Yemini the reasoning mechanism comprises a state-transition graph reasoning system for determining the condition of the service, (e.g. col. 12, line 54 col. 13, line 7, "causality graph").
- 18. Referencing claim 34, as closely interpreted by the Examiner, Yemini teaches the reasoning mechanism comprises a codebook reasoning system for determining the condition of the service, (e.g. col. 9, lines 1-30).
- 19. Referencing claim 35, as closely interpreted by the Examiner, Yemini teaches the reasoning mechanism determines the condition of the service from a mathematical simulation of the service, (e.g. col. 24, line 29 col. 25, line 8).

- Referencing claim 40, as closely interpreted by the Examiner, Yemini teaches the 20. operation invokes a query to a database to determine the operational characteristic of the network component, (e.g. col. 7, lines 9 - 60).
- Referencing claim 41, as closely interpreted by the Examiner, Yemini teaches the 21. operation invokes a second reasoning mechanism to determine the operational characteristic of the service, (e.g. col. 12, line 54 – col. 13, line 7 & col. 16, line 53 – col. 17, line 40).
- Referencing claim 42, as closely interpreted by the Examiner, Yemini teaches the 22. operation invokes an inspection of the operational characteristic of the network component, (e.g. col. 12, line 54 – col. 13, line 7 & col. 16, line 53 – col. 17, line 40).
- Referencing claim 43, as closely interpreted by the Examiner, Yemini teaches the 23. inference mechanism selects rules from the rule repository and invokes operations to implement the selected rules until the service achieves a desired condition, (e.g. col. 12, line 54 - col. 13, line 7 & col. 16, line 53 – col. 17, line 40).
- Referencing claim 44, as closely interpreted by the Examiner, Yemini teaches the service 24. parameter represents one or more of the following operational characteristics of the service:
- availability; 25.
- 26. reliability;
- usability; 27.

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- 28. integrity;
- 29. security;
- 30. performance;
- 31. configuration; and
- 32. status, (e.g. col. 8, lines 17 67).
- 33. Claims 4, 13 17, 18 26, 37 39, 45 53 and 55 62 are rejected for similar reasons as stated above.
- 34. Claims 18, 36 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yemini and Bhoj as applied to claims 13, 27, 35 and 49 above, and in further view of Glitho et al. (6233449) (hereinafter Glitho).
- 35. As per claim 36, as closely interpreted by the Examiner, Yemini teaches an action being taken when the parameter of the monitored network component crosses a threshold, (e.g. col. 25, lines 9 18), but does not specifically teach the use of an agent associated with the monitored network component to generate an alarm. Glitho teaches the use of an agent associated with the monitored network component to generate an alarm, (e.g. col. 7, lines 12 45). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Glitho with the combine system of Yemini and Bhoj because utilizing an alarm in a system could alert a user about different fault events from a hardware or software device, giving the user a chance to correct any faults in the system.

36. Claims 18 and 54 are rejected for similar reasons as stated above.

## Response to Arguments

37. Applicant's arguments with respect to claims 4 and 13 - 62 have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

- 38. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 39. a. Goldszmidt et al. U.S. Patent No. 6308216 discloses Service request routing using quality-of-service data and network resource information.
- 40. b. Fletcher et al. U.S. Patent No. 6321264 discloses Network-performance statistics using end-node computer systems.
- 41. c. Fletcher et al. U.S. Patent No. 6269401 discloses Integrated computer system and network performance monitoring.
- 42. d. Azarmi et al. U.S. Patent No. 5905715 discloses Network management system for communications networks.
- 43. e. Ball et al. U.S. Patent No. 6446200 discloses Service management.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. England whose telephone number is 571-272-3912. The examiner can normally be reached on Mon-Thur, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David E. England Examiner Art Unit 2143

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